HIGH TECHNOLOGY
COMPUTER SYSTEMS PTY. LTD.

87 SWAN STREET, RICHMOND VIC., 3121
TELEPHONE: (03) 429 1966

What can we say but **thank you!** Your incredible support for our new computer centre at 87 Swan Street, Richmond has put **HIGH TECHNOLOGY** into the major league of Australian personal computer suppliers, with many exciting developments unfolding in the industry which directly effect **you**, whatever your computer interests: home, business, education or any of a thousand applications!

As one of Australia's oldest Commodore suppliers, we guarantee continuing support for **tomorrow's** technology **today.** The purchaser of a PET/CBM system from us in 1978 or the COMMODORE 64 buyer last week both have our technical expertise and back-up facilities available **now.**
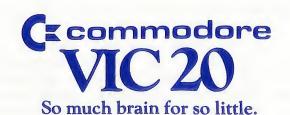
VIC 20 users will take heart in the phenomenal world-wide success of the "Friendly Computer", guaranteeing many years of exciting software and hardware releases to support the huge VIC user base of more than a **million** machines. Commodore 64 users already know that they have the hottest personal computer on the market - witness the unbelievable demand for C64 software - from **COMMODORE**, whose subsidiary **MOS TECHNOLOGY** actually **manufactures** the chip which drives other machines like the Apple and Atari!

A special word of thanks to all those who crammed into our new showroom to brave the onslaught of builder's hammering and sawing. Structural work at Swan Street is now completed and the electricians have finally tidied up cables and wiring, so come on in to see one of Australia's widest ranges of VIC20 and C64 software and hardware!

The personal computer success story of 1983 has to be the **COMMODORE 64.** The pundits said that it could never be done: a personal computer with 64K memory, higher graphics resolution than the Apple, the best professional standard sound synthesizer in the industry, advanced "sprite" graphics, Z-80 and CP/M compatibility and a full typewriter keyboard: but COMMODORE proved them wrong. Older hands will marvel that so much power is available at only $699 from a machine supported by one of the industry's giants.

HIGH TECHNOLOGY received one of the first pre-release C64's to arrive in Australia early in 1983. Extensive evaluation told us that the C64 was destined to be a winner; events have proved us correct. Industry, schools and private users have created an unparalleled demand for C64 hardware and software. Major international software houses are at this moment developing new software to exploit the power of the C64, as well as translating the top Apple and Atari software across to the new machine.

The shortage of C64 software which we saw in April/May is now being replaced by an avalanche of amazing products which we are reviewing literally every day. Hold on to your hats: here it comes!

Cᴋcommodore
VIC 20
So much brain for so little.

COMMUNICATIONS

Imagine your VIC or C64 controlling a huge mainframe computer via your telephone ... it's possible right now! **The Australian Beginning** (TAB) can be accessed with a local call in Melbourne or Sydney and has an enormous database of news and information services, bulletin boards, games, free **down-loadable software** and a "chat" facility to talk to other users. Call or write us for membership details. TAB users can say hello to us at usernames **HITECH** and **HIGHTECHCOM**.

In Melbourne, **MICOM** runs a free bulletin board with visitor access on (03) **762 5088**, and in Sydney the **Mi-Computer** club has a CBBS on (02) **662 1686**. Keep in touch for details of a low-cost direct connect modem coming soon for the VIC and C64.

REFERENCE GUIDES

Every VIC and 64 programmer needs the PROGRAMMER'S REFERENCE GUIDE for his or her machine. These go into fine detail on all facets of the machine - sound registers, hi-res graphics, machine language, memory maps, RS232 and user ports - and even include a circuit diagram of the computer! The VIC 20 guide and the C64 guide are $22 each. A "must have" for serious programming.

1520 PRINTER PLOTTER

The 1520 is now available ($360) and is an amazing unit which provides multi-coloured plots, charts and graphs and **also** program listings in four different sizes. Text can be written in four different colours horizontally or vertically. This is one of the most versatile peripherals for the VIC or C64 - check it out soon!

VICSPEED

How would you like to load and save VIC 20 programs at **six to seven** times faster than normal? That's 2K in 12 seconds, 12K in 30 seconds, 16K in 52 seconds! A new program called VICSPEED ($39.95) does just that, **plus** giving an APPEND command

to add a program to the end of an existing program, plus a POSITION command to position a tape to any of nine positions. Highly recommended for non-disk users.

LIGHT PENS

A light pen is an input device which can replace keyboard entry in many applications. When the pen is placed against the TV screen, the computer can read the X/Y coordinates of the pen's position. This information can have many potential graphics applications in your programs. We currently stock a new light pen ($39) which comes complete with full instructions and a free demonstration tape.

VIC MEMORY EXPANSION

We now have a board which adds **24K** memory to the VIC **plus** two extra slots for utilities, etc. At $219 it's the best way to bring your VIC up to it's full 28K capability.

PRINTER MUFFLERS

Late-night hackers will be interested in a new product - printer muffler boxes - which dramatically reduces the noise radiated by your printer. The reduction is truly amazing - call in for a demo.

MONITOR STANDS

Another good idea - a stand which organises your VIC or 64 and TV monitor into a compact ergonomic unit. Good value at only $19.95.

DUST COVERS

Protect your investment with our new attractive heavy duty vinyl dust covers for the VIC or 64, now in stock at $24.95.

Z80 CARTRIDGES

The Z80 CP/M cartridge is at last in stock ... this comes with a diskette and very large instruction manual. Unfortunately, Commodore has now advised us that they were in error

on the price ... the correct price is $142, which is still very good value indeed.

SPREADSHEETS

Spreadsheet programs are a very powerful forecasting and analysis tool which provide an answer to "what if" questions. To take a simple example, suppose you have set up a model of your own personal finances. **What if** you save $10 a week more? **What if** your salary increases by $10? How much sooner could you buy the new disk drive? And how much more interest would accrue in the meantime? But that salary increase would affect your tax rate, so ...

Think of any application where many variables interact. and you have a spreadsheet candidate. At the press of a button, you can see the result of changing one variable modifying others throughout the model.

The first spreadsheet was called VISICALC and at one stage accounted for 25% of total microcomputer business systems in the US. We have five spreadsheets for the C64: **COPYCALC** which although lacking the advanced features of the more expensive programs, is an ideal way to explore the concept of spreadsheets: **BUSICALC** ($85) or **EASYCALC** ($100) add many more features and greater speed. **EASY CALC RESULT** ($149) is on cartridge as is the top of the line **ADVANCED CALC RESULT** ($306) which is a 3 dimensional package allowing up to 32 pages to be referenced through. Call in for a demo.

COMMODORE OVERSEAS NEWS

CBM announces the CBM 1701, a 13" direct-connect hi-res colour monitor, likely to sell here for under $400 ... a 12 voice 37 key piano keyboard unveiled for the C64 and VIC 20 allows real-time recording and playback with full synthesizer specs. for under US$100 ... also shown is the "digi-drum" 3 pad electronic drum set priced under US$100 ... company head Jack Tramiel states that a Commodore LISA system

is forthcoming ... the new hand-held Commodore computer has been released ... The VIC 20 is voted Computer of the Year by European and American computer magazines ... Commodore and ZILOG sign agreement for chip production ... new Commodore speech technology announced ...

ULTRABASIC-64

If you liked **SYNTHY-64**, **SCREEN GRAPHICS 64** or **SPRITE AID**, here's another superb program from ABACUS. **ULTRABASIC-64** adds 50 commands to BASIC to give you easy to use POKEless graphics (including TURTLE graphics), music and sound, sprites, screen-to-printer dumps, joystick, lightpen and paddle reads and much more. Highly recommended.

LEARNING TO PROGRAM

A great way to learn BASIC programming is with An Introduction to BASIC: Part 1, available now for the VIC 20 and C64. It assumes no prior knowledge of computers and uses an easy to understand show-and-tell approach. The kit contains a 152 page manual with step-by-step instructions, explanations and practice drills. Two cassettes are included, which contain 17 programs specially designed to accompany the manual. The course continues with An Introduction to BASIC: Part 2.

GORTEK and the Microchips is the creation of three English school teachers which interweaves computer education and a space adventure story. The planet of Syntax is being invaded by fearsome Zitrons, and Gortek is working furiously to teach the Microchips to program the great computer to ward off the attack. The kit contains two cassettes containing educational games and other programs plus a 44 page manual. The package is designed for 10 to 13 year-olds, although it is suitable for younger children with parental assistance.

TOP GAMES

Hot C64 games at the moment are **ATTACK OF THE MUTANT CAMELS, PANIC 64, ESCAPE MCP, GRIDRUNNER, MOTOR**

MANIA and PAKACUDA and for the VIC 20, PHAROAH'S TOMB, GRIDRUNNER, COSMIC CRUNCHER, ARCADIA, WACKY WAITERS, CHOPLIFTER and PARATROOPER.

Just received for the C64: 5 new cartridges from COMMODORE - SEAWOLF, KICKMAN, JUPITER LANDER, RADAR RATRACE and CLOWNS. All are in machine language and feature excellent hi-res graphics and sound.

PROGRAMMING NOTES

This month, some one liners:
to convert screen PEEK value in P to string variable A$ (and learn about Boolean operators) try
A$=CHR$((P AND 63) OR (-64*((P AND 63)<32)) OR ((P AND 64)*2))
going back the other way, to convert A$ to screen value in P try
P=ASC(A$): P=(P AND 63) +((P AND 128)/2)
round A to D decimal places with
A=INT(A*10^D+.5)/10^D
convert decimal in D to hex in H$ with
10 IF D THEN A=INT(D/16):Z=D-(A*16): H$=CHR$(Z+48+(Z>9)*-7)+H$:D=A:GOTO10
and hex to decimal with
D=0:FOR   I=1   TO   LEN(H$): A=ASC(MID$(H$,I,1))-48: D=D*16+A+(A>9)*7:NEXT

More tips next issue!

HAM RADIO

We didn't realise that there were so many VIC-20 and C64 ham radio operators and short-wave listeners out there! We are ironing out the problems caused by delays in obtaining sufficient stocks of the VIC-20 cartridge - check with us - and the new C64 RTTY/CW/SSTV manuals are now at the printers.

ATTENTION GENIUSES

Have you developed something extra special for the VIC 20 or 64? If so, why not give Mike a call to discuss how we can market your product both in Australia and overseas markets. Your software or hardware must be original, well documented and technically first class. This may be the start of something big, so ACT NOW!

MAIL ORDER

The response to our first newsletter from our many valued country, interstate and overseas customers frankly caught us unprepared to deal with such volume. We have added extra staff and revamped our entire mail order system and now offer 24 hour turnaround and when unavoidable, back ordering and rain check advice. Any enquiries on previous orders will be given priority treatment by ringing (03) 429 1966. Please note that we can now also accept BANKCARD by phone: please quote your expiry date and bankcard number.

BEHIND THE SCENES AT HIGH TECH

The most unusual business enquiry recently: the "escort agency" who need a database to keep track of their clients (and they say they don't keep records) ... shaking hands with Bill can be a shocking experience: for some reason he is the only person who gets a charge from the nylon carpets! We always knew he had a lot of potential ... the lovely lady seen at Swan Street on Friday nights is Debbie, Joel's "other half" ... speaking of Friday nights, the reason why Joel and Mike are never seen together is not due to a feud; they take it in turns to demolish a pizza out the back! ... a lady fainted in the shop the other day (true!) ... guess it must have been our VIC and 64 program pack promotion, although Bill says women fall at his feet all the time ...

That's it for another newsletter - don't forget that we are open until nine on Friday nights and until 12:30 on Saturdays. We're happy to help with your computing questions on (03) 429 1966 as well as our mail order service across Australia and New Zealand.

VIC-20 SOFTWARE

VIC-20 SOFTWARE - CASSETTE

AARDVARK (Adventures +16K)

Earthquake	20.00
Quest	20.00
Pyramid	20.00
Mars	20.00
Circle World	20.00
Derelict	20.00
Vampire Castle	20.00
Haunted House	20.00
Trek	20.00
Nuclear Sub	20.00
Adventure Writing/Deathship	20.00
Concentration	20.00
Backgammon & AC Ducy	20.00

ABACUS

Graphvics	28.00
Vigil	33.00
Piper	23.50
Tiny BASIC Compiler	23.50
Cribbage	20.00
Hires/Multicolour Graphics	23.50
Joystick Painter	20.00
Budgeteer	23.50
I-CHING	28.50
Tiny PILOT	22.00
Super EXpander Screen Dump	20.00
Quick Chart	20.00

ACME   (requires 8K)

Locomotion	20.00
Vic-Derby	20.00
Sentinels	20.00
Vic-Voice	20.00

ANIROG

Crawler	18.00
Dotman	18.00
Cavern Fighter	18.00
Xeno II	18.00
Krazy Kong	18.00
Galactic Intruder	18.00
Pharoah's Tomb	18.00
Frogrun	18.00
Zok's Kingdom	18.00
Tiny Tots Seven	18.00
3D Time Trek	18.00
Games Pack (Vol 1)	18.00
Games Pack (Vol 2)	18.00
Slap Dab	18.00

AUTOMATED SIMULATIONS/EPYX

Crush Crumble Chomp	45.95
Datestones of Ryn	32.95
Invasion of Orion	38.95
Monster maze	61.95
Rescue at Rigel	45.95
Ricochet	32.95
Sword at Fargoal	45.95

CARTER

Chess	24.95
Krazy Kong	24.95
Multisound Synthesizer	24.95
Post	24.95
3D Maze	19.95
Six Lane Dodge-ems	19.95
Vicgammon	19.95
Chopper Raid	19.95
Cosmiads	19.95
Vic Frogger	19.95
Finder	19.95
Label	19.95
Panic	19.95
Sad Faces	19.95
Search	19.95
Shark Attack	19.95
Space Maze	19.95
Spellit	19.95
Alien Panic	19.95

Alien Plaque	19.95
Asteroids	19.95
Blitzkreig	19.95
Death Race	19.95
Defender on Tri	19.95
Descent	19.95
Journey	19.95
Vic Wall	19.95
Word Processor	24.95

CHANNEL 8

The Black Squid	18.00

CONTRONICS

Countdown	18.15
Countup	18.15
Addition	18.15
Subtraction	18.15
Multiplication	18.15
Division	18.15
Long Addition (Problem Prov)	18.15
Long Addition (Digit by Digit)	18.15
Long Addition Method	18.15
Long Subtraction (Problems)	18.15
Long Subtraction (Digits)	18.15
Long Subtraction Method	18.15
Long Multiplication (Problems)	18.15
Long Multiplication (Digits)	18.15
Long Multiplication Method	18.15
Long Division (Problems)	18.15
Long Division (Digits)	18.15
Long Division Method ·	18.15
Proportion	18.15
Metric	18.15
Missing Number ·	18.15
Tables Trainer	18.15
School Raffle	18.15
Long Addition (Ext NotationA)	18.15
Long Addition (Ext NotationB)	18.15
Long Addition (Ext NotationC)	18.15
Long Addition (Ext Notation ABC)	44.40
Rectangles	18.15
Master Spell	41.95
Record Keeper	29.95
Music-Bass Staff	20.40
Music-Treble Staff	20.40
Lissajous Plots	18.15
Guess My Number	18.15
Year 1 Spelling	18.15
Year 2 Spelling	18.15
Year 3 Spelling	18.15
Year 4 Spelling	18.15
Year 5 Spelling	18.15
Year 6 Spelling	18.15
Spelling Package Years 1-6	71.00
Maths Builder	18.15
Prep School Package	18.15
Vic Tales	18.15
Word Power	18.15
Jumble	18.15
Geography Package	43.20
Multitute	18.15
Divitute	18.15

COMMODORE

We want to Count	28.00
Facemaker	28.00
Twister	28.00
Number Gulper	28.00
Rainbow Towers	28.00
Car Chase	15.00
VIC 21	15.00
Blue Meanies	15.00
Biorythm	15.00
Space Math	15.00
Slither/Super Slither	15.00
Recreation Program Pack A	66.00
Personal Finance I	15.00
Persoanl Finance II	15.00
Vic Typewriter	15.00
Expense Calendar	15.00
Loan & Mortgage Calculator	15.00
Home Calculation Pack A	66.00
Prog. characters/graphics editor	32.00

Introduction to Basic Part 1	30.00
Part 2	30.00
Cosmic Jailbreak	39.95
Menagerie	39.95
Garden Wars	39.95
Home Babysitter	39.95
Visible Solar System	39.95
Simplicalc (Disk)	59.95
Simplicalc (Cass)	49.95
VicFile (Disk)	59.95
Vic Money Manager (cass)	49.95
Personal Finance (cart)	39.95
Vicwriter (Disk)	59.95
Vicwriter (cass)	49.95
Quizmaster	25.00
BBC Mastermind	25.00
General Knowledge - Data 1	10.00
General Knowledge - Data 2	10.00
General Knowledge - Data 3	10.00
General Knowledge - Data 4	10.00
Wine & Food	10.00
Music	10.00
Sport & Games	10.00
Films & T.V.	10.00
Know your own I.Q.	25.00
Know your childs I.Q.	25.00
Robert Carrier Menu Planner	25.00
Type-a-Tune	12.00
Number Chaser	28.00
Number Guzzler	28.00
Hide and Seek	28.00
Words Words Words	28.00
Shape Up	28.00
VicTerm	20.00

GAMEWORX (Adventures Std Memory)

Castle Tollenkar	19.50
Secret of Bastow Manor	19.50
Mystery Island	19.50
Sorcerer & the Princess	19.50

HES

Maze of Mikor	26.95
Pinball	23.95
Tank Wars	23.95
Laser Blitz	26.95
Dam Bomber	23.95
Pak Bomber	23.95
Fuel Pirates	26.95
Tank Trap	26.95

INTERCEPTOR

Puckman	18.00
Penny Slot	18.00
Vic Bomber	18.00
Alien Attack	18.00
Vic Rescue	18.00
Galaxians	18.00
Space Bugs	18.00
Wordhanger	18.00
Crazy Kong	18.00
Fantazia	18.00

IMAGINE SOFTWARE

Wacky Waiters	18.00

LLAMASOFT

Abductor	19.95
Grid Runner	19.95
Blitzkrieg	15.95
Andes Attack	19.95
Traxx	17.95
Matrix	21.95
Lazer Zone	21.95

MELBOURNE HOUSE

Innovative Cassette 1	20.00
Innovative Cassette 2	20.00
Innovative Cassette 3	20.00
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Games Pack (5 games)	20.00

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Algebra	12.95
Geometry	12.95

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Astronomy	12.95
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Word Perfect	14.95
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French Flash Cards	14.95
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Copycalc	24.95
Micro Word Processor	39.95
Micro Inventory	39.95
Subtract (Grade 2)	12.95
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Speed Reading	12.95

ONLINE

Crossfire	45.95

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Road Toad	19.95
Chicken Chase	19.95
Mosquitoes	19.95
Escape from Orion	19.95
Road Racer	19.95
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Go	20.00	Master Wit	14.00
Draughts	20.00	Space Intruders	14.00
		Checker King	14.00
		Min-Vic	14.00
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Vicat	15.95	Asteroids	16.00
Alien Blitz	15.95	Dragon Maze	16.00
Amok	15.95	Vicvader	16.00
Sky Math	15.95	Maths Hurdler	16.00
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The Alien	15.95		

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Sprint	16.00
Packman	16.00
Invader Falls	16.00
Dunebuggy	16.00
Head On	16.00
Maze of Mikor	16.00
Tank Wars	16.00
Typing Trainer	19.00
Spanish	20.00
Italian	20.00
German	20.00
French	20.00

VIXEL

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VOL 3: Cover,Warp,Fifteen,Rail	19.50

VIC CARTRIDGE PROGRAMS

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Adds 3K memory plus new BASIC commands
PROGRAMMER'S AID 59.00
Adds debugging commands
VICMON MACHINE LANGUAGE MONITOR 59.00
Full 6502 disassembler/de-bugger
VIC AVENGERS 39.95
Space Invading Action For Arcade Enthusiasts
STAR BATTLE 39.95
Swerve the base craft, fire back at intruders
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